

20001207.ba v03\_n053.bam.20001207

>From ???@??? Thu Dec 7 06:16:25 2000 -0600  
Date: Thu, 7 Dec 2000 06:14:19 CST  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 3053  
Message-Id: <20001207132237.7EF585F06@devel43.theporch.com>

BOATANCHORS Digest 3053

Topics covered in this issue include:

- 1) RE: BA TELEPHONE  
by "Ed Sieb" <sieb@sympatico.ca>
- 2) Re: PORTABLE VOM SHOP TALK  
by Tom Norris <badger@telalink.net>
- 3) RE: loud speaker impedance  
by Ralph Parker <rparker@dccnet.com>
- 4) RE: Wrench for Knurled Nuts (toggle switch)  
by James Hanlon <knjhanlon@uswest.net>
- 5) Re: Navy XARD RX?, touch of Midway radar  
by Edward Zeranski <ezeran@concentric.net>
- 6) Re: Navy XARD RX?, touch of Midway radar  
by AAFRadio@erols.com
- 7) Doghouse sighting  
by James Hanlon <knjhanlon@uswest.net>
- 8) RE: BA TELEPHONE  
by William Donzelli <aw288@osfn.org>
- 9) FS: And More Tubes!  
by William Donzelli <aw288@osfn.org>
- 10) RE: BA TELEPHONE  
by "Ed Sieb" <sieb@sympatico.ca>
- 11) Re: BA TELEPHONE  
by "Spencer Petri" <wa5jci@flash.net>
- 12) Proper Glue for Felt???  
by "ROBERT W. DOWNS" <RWDowns\_WA5CAB@compuserve.com>
- 13) FS NOS Simpson 260-6 VOM  
by Scott Robinson <spr@earthlink.net>
- 14) Re: Navy XARD RX?, touch of Midway radar  
by "ROBERT W. DOWNS" <RWDowns\_WA5CAB@compuserve.com>
- 15) RE: loud speaker impedance  
by "Bill Hawkins" <bill@iaxs.net>
- 16) RE: Proper Glue for Felt???  
by "Ed Sieb" <sieb@sympatico.ca>
- 17) RE: loud speaker impedance  
by "Bill Hawkins" <bill@iaxs.net>
- 18) Re: Doghouse sighting

by "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>  
19) RE: Wrench for Knurled Nuts (toggle switch)  
by john <johnmb@mindspring.com>  
20) Re: Doghouse sighting  
by john <johnmb@mindspring.com>  
21) Re: Wrench for Knurled Nuts (toggle switch)  
by Bob/WB0AUQ <brainbol@sunflower.com>  
22) Re: Navy XARD RX?, touch of Midway radar  
by AAFRadio@erols.com

-----  
From: "Ed Sieb" <sieb@sympatico.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: BA TELEPHONE  
Date: Wed, 6 Dec 2000 18:06:20 -0500  
Message-ID: <LOBBJH0LOOHLIPLONIAFIEGMDHAA.sieb@sympatico.ca>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> "How does the receiver convert the demodulated phase variations into  
> colours? Do they use a lookup table?"  
>  
> An intelligent question for one of his generation, and one that  
> really shows the digital gulf in the way engineers think nowadays.

Which is why RF dinosaurs like me still have a job. These  
new-fangled digital guys don't know a mixer from a oscillator.

Just what ARE they teaching in school these days?

Ed  
VA3ES

> -----Original Message-----  
> From: owner-boatanchors@theporch.com  
> [mailto:owner-boatanchors@theporch.com]On Behalf Of Morris Odell  
> Sent: Wednesday, December 06, 2000 4:08 PM  
> To: Old Tube Radios  
> Subject: RE: BA TELEPHONE  
>  
>  
>  
>  
> > still has a rotary dial  
> > phone. Well this

> > young man looked at the phone & asked, "How do you use it?"  
> > After being  
> > shown, he thought it was so cool. A child of the touch tone age!  
>  
> Recently I was showing my boatanchorium to a cousin's son who is  
> doing a PhD  
> in what is now called electrical engineering at my alma mater. After  
> marvelling at the vacuum tubes (he was especially impressed by nixies) he  
> was looking at a Tek 529 TV waveform monitor. I set it up to  
> look at a local  
> station and explained the features of the colour TV waveform to him (he's  
> never seen that either). He asked:  
>  
> "How does the receiver convert the demodulated phase variations into  
> colours? Do they use a lookup table?"  
>  
> An intelligent question for one of his generation, and one that  
> really shows  
> the digital gulf in the way engineers think nowadays.  
>  
> 73 de Morris VK3DOC  
>

-----  
Message-Id: <4.2.2.20001206175319.040f9ac0@mail1.telalink.net>  
Date: Wed, 06 Dec 2000 17:54:30 -0600  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Tom Norris <badger@telalink.net>  
Subject: Re: PORTABLE VOM SHOP TALK  
Cc: boatanchors@theporch.com  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

My Fluke 77's and 87 work fine around RF and with RF probes.  
Never had a problem with them, except they don't like being  
dropped from a couple hundred feet from towers. Fluke does  
have a very very nice flat rate repair program though. :-)  
Don't ask how I know.

Tom KA4RKT

At 11:02 AM 12/06/2000 -0500, you wrote:

>To: boatanchors@theporch.com  
>  
>As someone pointed out upstream, some (most?) DVM's don't like RF around,  
>don't read properly. VOM's & tube type VTVM's do fine.  
>  
>I know this is true with my \$20 DVM but what about better ones, e.g. B-K or

>Fluke?

>

> -John Sehring (12/06/00, temp. at RPSL MedCenter/Chicago) UCC WB0EQ

-----  
Message-Id: <3.0.3.32.20001206164956.00714378@pop3.dccnet.com>

Date: Wed, 06 Dec 2000 16:49:56 -0800

To: Old Tube Radios <boatanchors@theporch.com>

From: Ralph Parker <rparker@dccnet.com>

Subject: RE: loud speaker impedance

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

>... my experience is that if you plug a 4 ohm rated speaker into a guitar  
>amplifier designed for an 8 ohm load, you will definitely hear a  
degradation >in sound quality...

Usually a decrease in LF response (and level).

An amplifier (or other output device) likes to look into an impedance  
greater than itself.

To keep it simple, a 4 ohm output impedance into an 8 ohm load is OK,  
but an 8 ohm output into a 4 ohm load will suffer.

VE7XF

-----  
Message-ID: <3A2EF9D0.DE17D039@uswest.net>

Date: Wed, 06 Dec 2000 19:45:37 -0700

From: James Hanlon <knjhanlon@uswest.net>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: RE: Wrench for Knurled Nuts (toggle switch)

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Mine says "KNURL-TITE, PIONEER, LA CAL USA." Maybe there is  
still a Pioneer tool company in Los Angeles?

Jim, W8KGI

-----  
Message-Id: <3.0.1.32.20001206185455.009fbbc0@pop3.concentric.net>

Date: Wed, 06 Dec 2000 18:54:55 -0800

To: Old Tube Radios <boatanchors@theporch.com>

From: Edward Zeranski <ezeran@concentric.net>

Subject: Re: Navy XARD RX?, touch of Midway radar

Cc: boatanchors@theporch.com

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 09:26 AM 12/6/00 -0500, Marty's Refl. Drop wrote:  
>Just read most of "Black Cat Raiders," a 1981 paperback on PB5  
>(& wheeled 5A) Catalinas.

Will look for the book! I met two people who were in the squadron. Chuck Terebonne (sp?) and a friend's dad, John Carl. My friend's dad was a pilot while chuck was a young enlisted crewman at the time. Unfortunately I've lost track of both. Does the book have crew lists? Chuck told a story about taking supplies at night to an Aussie coast guy who had been a 'blackbirder' before the war.

-----  
Message-ID: <3A2EFF09.F7F0495D@erols.com>  
Date: Wed, 06 Dec 2000 22:07:53 -0500  
From: AAFRadio@erols.com  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>, RWDwns\_WA5CAB@compuserve.com, polepeeg@aa4rm.ba-watch.org, richwurtz@juno.com, rfisher@okitele.com, radarmus@erols.com  
Subject: Re: Navy XARD RX?, touch of Midway radar  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

William Donzelli wrote:  
> > > They had 69 of them, 67 of which are still in one of my storage  
> > > buildings.  
> You mean Baranowski only managed to find three suckers to buy the damn  
> things?! You, me, and someone else?

Hokay, finally home from work, and delighted to find such erudite discussions of my countermeasures interest. :-) I must be the mystery third sucker of Baran's stash - I have only one of them, luckily. With a certain sensitivity to entering the twilight zone of electro-historical-trivia, the XARD was in fact the predecessor to the ARD, ARD-1, and ARD-2. All of them share my nomination as the world's worst production receiver, whose wonderful attributes I explained in a note on 25 November. The XARD was apparently a response to capture of the Japanese radar on Guadalcanal, though it wasn't the only one. Its original design was evidently a crystal detector rather than the 6H6 used in the later production sets, partially because at that point in the war it was unclear what frequencies the Japanese were using in their sets - 60MHz was the suspect frequency. NRL hurriedly threw together the prototypes, which covered 50 to 1000mHz rather than the later 300 to 1000mHz band. The ARD series was quickly replaced by the ARC-1 and then the APR-1 for reasons that are best described as "operator usability" or

"user friendliness" in today's terms. They had enormous problems with the silver plated slotted line in the humidity of the South Pacific, and a two hour stint with operating the receiver wasn't remembered with any fond nostalgia by those unlucky enough to have volunteered for the job. The three references I consulted suggest it was considered a stopgap measure to meet a specific threat, so perhaps I'm being unnecessarily hard on the designers.

73,  
Mike Hanz KC4TOS

-----  
Message-ID: <3A2F0201.D91DDF43@uswest.net>  
Date: Wed, 06 Dec 2000 20:20:34 -0700  
From: James Hanlon <knjhanlon@uswest.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Doghouse sighting  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I stopped by Associated Radio Communications while I was in Kansas City on Monday, and I found three National Doghouse power supplies on the back shelf. There are two 697's and one 5886. They are closed, so I didn't have a chance to look inside. The store wants \$75 a piece for them.

Their QTH is 8012 Conser, Overland Park, KS 66204. Their phone is 913-381-5900, "orders" to 800-497-1457, FAX 913-648-3020. Their e-mail is sales@associatedradio.com and they may have a web site at www.associatedradio.com.

I'm not "associated" with them in any way. I just drop in now and then when business takes me to Kansas City. You may remember them from their ads in QST a number of years ago. They ran a picture showing sales shelves full of used Collins gear and other goodies. It sure doesn't look like that now!

73,  
Jim, W8KGI

-----  
Date: Wed, 6 Dec 2000 23:35:08 -0500 (EST)  
From: William Donzelli <aw288@osfn.org>  
To: Old Tube Radios <boatanchors@theporch.com>  
cc: Old Tube Radios <boatanchors@theporch.com>

Subject: RE: BA TELEPHONE  
Message-ID: <Pine.SUN.3.91-FP.1001206232957.26881M-1000000@osfn.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Which is why RF dinosaurs like me still have a job. These  
> new-fangled digital guys don't know a mixer from a oscillator.

I am not trying to start a flame war - but do you analog guys know how to make a cache memory <grin>?

Please - don't pick on the young guys and their digital ways.

William Donzelli  
aw288@osfn.org

-----  
Date: Wed, 6 Dec 2000 23:45:40 -0500 (EST)  
From: William Donzelli <aw288@osfn.org>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: FS: And More Tubes!  
Message-ID: <Pine.SUN.3.91-FP.1001206233633.26881N-1000000@osfn.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

More tubes to go! Once again, these lots are priced at \$20 even, and that includes shipping in the US. Non-US BA'ers are also encouraged, but I will have to refigure shipping on a case by case basis. The lots are for raw, untested tubes, with the obvious gassy and broken ones removed. These are not junk TV tubes - these are all cool BA type tubes good for communications and military equipment. If the tube is not in \*Tube Lore\*, it is not included!

The lots (with names for a change):

"George") Twenty octal rectifiers -  
5R4s, 5U4s, 5V4s, some in the older ST bulbs.  
"Fred") Fourty loctals -  
mostly 6 and 12 volt types, but a few battery types, too.  
"Bob") Fourty glass octals -  
all 6 and 12 volt types, 6F6G, 6K6GT, 6X5GT, 6Y6G, 12Q7GT, etc.  
"Harry") Ten Command Set tubes -  
mostly 1625s, but some 1626/29s as well.  
"Tom" ) Fourty metal octals -  
some nice, some beat-up, but good numbers (aren't they all?).  
"Dan" ) Eleven octal transmitting types -  
basically, 2E24s and 2E26s.

Anyway, as some of you know, I tend to throw in a few extras with each lot, too.

First come, first served.

William Donzelli  
aw288@osfn.org

-----  
From: "Ed Sieb" <sieb@sympatico.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: RE: BA TELEPHONE  
Date: Wed, 6 Dec 2000 23:55:20 -0500  
Message-ID: <LOBBJH0LOOHLIPLONIAFKEHCDHAA.sieb@sympatico.ca>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Cash memory? Naw, whutsat?  
Lookit, these young whipper-snappers need to know who's  
boss 'round here, and dag-nabbit, it's us with our 4-1000's,  
and tank coils. Them digital diaper-fillers, will have to pry  
my slide-rule and my Measurements Model 59 outta muh  
cold, dead hands. :-)

A Crusty Ol' F\*\*t and proud of it.

Ed  
VA3ES

> -----Original Message-----  
> From: William Donzelli [mailto:aw288@osfn.org]  
> Sent: Wednesday, December 06, 2000 11:35 PM  
> To: Ed Sieb  
> Cc: Old Tube Radios  
> Subject: RE: BA TELEPHONE  
>  
>  
> > Which is why RF dinosaurs like me still have a job. These  
> > new-fangled digital guys don't know a mixer from a oscillator.  
>  
> I am not trying to start a flame war - but do you analog guys  
> know how to  
> make a cache memory <grin>?  
>



> Please - don't pick on the young guys and their digital ways.  
>  
> William Donzelli  
> aw288@osfn.org  
>

-----  
Message-ID: <01e001c0600a\$fb8dfd60\$947cd7d8@default>  
From: "Spencer Petri" <wa5jci@flash.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: BA TELEPHONE  
Date: Wed, 6 Dec 2000 23:03:02 -0600  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Don't ferget that CRC book on the shelf.

es 73 de Pete WA5JCI   EM21

6 meter VUCC # 361/668-WAS # 490-WAC CW  
2 meter VUCC # 346/190  
----- Original Message -----  
From: Ed Sieb <sieb@sympatico.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Sent: Wednesday, December 06, 2000 10:55 PM  
Subject: RE: BA TELEPHONE

> Cash memory? Naw, whutsat?  
> Lookit, these young whipper-snappers need to know who's  
> boss 'round here, and dag-nabbit, it's us with our 4-1000's,  
> and tank coils. Them digital diaper-fillers, will have to pry  
> my slide-rule and my Measurements Model 59 outta muh  
> cold, dead hands. :-)  
>  
> A Crusty Ol' F\*\*t and proud of it.  
>  
> Ed  
> VA3ES  
>  
> > -----Original Message-----  
> > From: William Donzelli [mailto:aw288@osfn.org]  
> > Sent: Wednesday, December 06, 2000 11:35 PM

> > To: Ed Sieb  
> > Cc: Old Tube Radios  
> > Subject: RE: BA TELEPHONE  
> >  
> >  
> > > Which is why RF dinosaurs like me still have a job. These  
> > > new-fangled digital guys don't know a mixer from a oscillator.  
> >  
> > I am not trying to start a flame war - but do you analog guys  
> > know how to  
> > make a cache memory <grin>?  
> >  
> > Please - don't pick on the young guys and their digital ways.  
> >  
> > William Donzelli  
> > aw288@osfn.org  
> >  
>  
>

-----  
Date: Thu, 7 Dec 2000 00:56:08 -0500  
From: "ROBERT W. DOWNS" <RWDowns\_WA5CAB@compuserve.com>  
Subject: Proper Glue for Felt???  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-ID: <200012070056\_MC2-BDB1-C291@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
                charset=ISO-8859-1  
Content-Disposition: inline

Group,

Just got a new (to me) CH-234 case (for the IE-36) and some of the felt  
lining is loose. Some of it is also missing, but that's another problem.=  
=

Question is, what's an appropriate glue to use for felt to wood? Don't  
recall seeing this come up here before. Has to be something that won't  
saturate the felt.

Robert Downs  
<RWDowns\_WA5CAB@compuserve.com>  
Houston

-----  
Message-Id: <v03007801b654d32d9d6d@[209.178.168.100]>

Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 6 Dec 2000 21:50:32 -0800  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Scott Robinson <spr@earthlink.net>  
Subject: FS NOS Simpson 260-6 VOM

Folks,

Recently rescued from sitting in a drawer in a friend's house:

Simpson 260-6 VOM NOS in original box and packing materials, with manual and \$98 receipt for purchase in Albuquerque NM in 1980. I tested all ranges except the 10 Amp one and they all work. It looks brand new; I think the former owner bought it and then never used it. I put batteries in to check the ohms ranges and then took them out. Otherwise, I doubt it's had batteries in it since factory test as the battery compartment looks brand new, too. It uses a D cell and a 9V battery..

I'm asking \$100 plus shipping for this meter. As careful readers of this list will have noticed, the Simpson 260 is not my favorite meter; otherwise, I might keep it myself.

Regards,

Scott Robinson  
spr@earthlink.net

Junque is GOOD for you!

-----  
Date: Thu, 7 Dec 2000 00:56:14 -0500  
From: "ROBERT W. DOWNS" <RWDowns\_WA5CAB@compuserve.com>  
Subject: Re: Navy XARD RX?, touch of Midway radar  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "[unknown]" <aw288@osfn.org>, "[unknown]" <radarmus@erols.com>,  
"[unknown]" <rfisher@okitele.com>, "[unknown]" <richwurtz@juno.com>,  
"[unknown]" <polepeeg@aa4rm.ba-watch.org>,  
Old Tube Radios <boatanchors@theporch.com>  
Message-ID: <200012070056\_MC2-BDB1-C295@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;

charset=ISO-8859-1

Content-Disposition: inline

Message text written by INTERNET:AAFRadio@erols.com

>The ARD series was quickly replaced by the ARC-1 and then  
the APR-1 for reasons that are best described as "operator usability" or<=

I assume that you mean "ARC-1 and then AN/APR-1". :-)

Lenox, the ARD, or at least the ARD-2 which is the only model that I've  
seen, is a 1/2 ATR package with a tube lineup similar to that in the  
AN/APR-1 and AN/APR-4 (6AC7's, etc.). According to the manual, the tunin=  
g

range of the ARD-2 is 80-3000 MC. The antennas (three different lengths)=

are spikes that stick out the sides of the aircraft at 45 degrees to the  
horizontal. Tuning was done with the slotted waveguide at the antennas,  
and must have be, as Mike has said, physically uncomfortable. You really=

need one of these to go with your AN/APR-4's and AN/ALR-5's. :-)

Robert Downs

<RWDowns\_WA5CAB@compuserve.com>

Houston

-----  
From: "Bill Hawkins" <bill@iaxs.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: loud speaker impedance  
Date: Thu, 7 Dec 2000 01:09:57 -0600  
Message-ID: <003e01c0601c\$b4cda260\$290aa8c0@darius>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Seems to me we used to talk about 'damping' in the golden age  
of tube hi-fi (before the marketing guys really got to it).  
Negative feedback 'stiffens' the output by making it be more  
nearly an accurate representation of the input. Variations in  
load impedance have little effect on the output - as long as  
the amp doesn't run out of power and saturate (clip).

Getting enough feedback around an output transformer was  
tough to do. Some folks were able to eliminate it with very  
inefficient OTL cathode follower designs. When SS devices  
made it possible to eliminate the transformer and coupling

capacitor, hi-fi had some very stiff amps. Then some folks decided that accurate amplification didn't produce that mellow, fuzzy sound they wanted (those that could still hear anything, that is), and the rest is history.

Regards,  
Bill Hawkins

-----  
From: "Ed Sieb" <sieb@sympatico.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Proper Glue for Felt???  
Date: Thu, 7 Dec 2000 02:19:31 -0500  
Message-ID: <LOBBJHOL00HLIPLONIAFAEHFDHAA.sieb@sympatico.ca>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have glued felt to wood, metal etc, using a spray-on glue. I use "Elmer's Spray Adhesive for Arts & Crafts". I spray it on the surface to be "felted", and apply the felt on to the surface. Works well for me. Other similar crafts type spray adhesives should work equally well

Ed  
VA3ES

-----  
From: "Bill Hawkins" <bill@iaxs.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: loud speaker impedance  
Date: Thu, 7 Dec 2000 02:08:56 -0600  
Message-ID: <003f01c06024\$f27ad800\$290aa8c0@darius>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

To finish the story (so I can get to sleep), there is a point where the speaker impedance match really matters. Those of you who load transmitters know that maximum power transfer happens when the source and the load impedances are the same. Now, a speaker goes through some wild impedance variations, but there is a point near resonance where the impedance drops to the rated value. That is where the speaker wants the most power from the amp. If the power comes from tubes, their plate impedance has

to be matched to the speaker impedance to deliver rated power.

And since most people want bass power, that's the way amps are rated for impedance, even though the apparent output impedance is lowered by feedback.

Over on the R-390 group, Dr. Gerry has just explained why speaker impedances are so low. You need the smallest possible magnet gap to keep the field strength up for the voice coil to work against it, so there's no room for lotsa turns. You wouldn't want the inductance anyway.

Regards,  
Bill Hawkins

-----  
Message-Id: <4.2.0.58.20001207064433.00a90e98@miavx1.muohio.edu>  
Date: Thu, 07 Dec 2000 06:49:48 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>  
Subject: Re: Doghouse sighting  
Cc: boatanchors@theporch.com  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

> stopped by Associated Radio Communications ..... I just drop in  
>now and then when business takes me to Kansas City. You may  
>remember them from their ads in QST a number of years ago.  
>They ran a picture showing sales shelves full of used  
>Collins gear and other goodies. It sure doesn't look like  
>that now!

That's my old home town you're talkin' about! Associated has been under new management for several years. It's former owner was Wade W0BC ("Big Crook"), a likable gregarious sort, despite his belief that the customer was always wrong. Wade bought up huge amounts of Collins gear in the 70s and 80s and sold much of it overseas.

Jim W8ZR  
\*\*\*\*\*  
James C. Garland, President  
Miami University  
<http://www.muohio.edu/president/>  
\*\*\*\*\*

-----  
Message-Id: <3.0.3.32.20001207064533.00e44230@mindspring.com>

Date: Thu, 07 Dec 2000 06:45:33 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: john <johnmb@mindspring.com>  
Subject: RE: Wrench for Knurled Nuts (toggle switch)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Mine says "GC (General Cement) 9358 USA"

John  
PS: Hi Jim!

At 07:45 PM 12/6/00 -0700, James Hanlon wrote:  
> Mine says "KNURL-TITE, PIONEER, LA CAL USA." Maybe there is  
> still a Pioneer tool company in Los Angeles?  
>  
> Jim, W8KGI  
>  
>

-----  
Message-Id: <3.0.3.32.20001207065049.00e43e08@mindspring.com>  
Date: Thu, 07 Dec 2000 06:50:49 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: john <johnmb@mindspring.com>  
Subject: Re: Doghouse sighting  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Jim, do you know which one is "right" for their VHF HF5?  
John

At 08:20 PM 12/6/00 -0700, James Hanlon wrote:  
> I stopped by Associated Radio Communications while I was in  
> Kansas City on Monday, and I found three National Doghouse  
> power supplies on the back shelf. There are two 697's and  
> one 5886. They are closed, so I didn't have a chance to  
> look inside. The store wants \$75 a piece for them.  
>  
> Their QTH is 8012 Conser, Overland Park, KS 66204. Their  
> phone is 913-381-5900, "orders" to 800-497-1457, FAX  
> 913-648-3020. Their e-mail is sales@associatedradio.com and  
> they may have a web site at www.associatedradio.com.  
>

>I'm not "associated" with them in any way. I just drop in  
>now and then when business takes me to Kansas City. You may  
>remember them from their ads in QST a number of years ago.  
>They ran a picture showing sales shelves full of used  
>Collins gear and other goodies. It sure doesn't look like  
>that now!

>  
>73,  
>  
>Jim, W8KGI  
>  
>

-----  
Message-ID: <3A2F7CD4.334A8ADD@sunflower.com>  
Date: Thu, 07 Dec 2000 06:04:36 -0600  
From: Bob/WB0AUQ <brainbol@sunflower.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Wrench for Knurled Nuts (toggle switch)  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

That's the "small" (adjustable) one.  
Then there is a larger (adjustable), but  
mine does  
not have the part number marking. It is  
also GC.  
Bob/WB0AUQ

john wrote:  
>  
> Mine says "GC (General Cement) 9358 USA"

-----  
Message-ID: <3A2F7FA8.3CDB7B94@erols.com>  
Date: Thu, 07 Dec 2000 07:16:40 -0500  
From: AAFRadio@erols.com  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>, aw288@osfn.org,  
radarmus@erols.com, rfisher@okitele.com, richwurtz@juno.com,  
polepeeg@aaa4rm.ba-watch.org  
Subject: Re: Navy XARD RX?, touch of Midway radar  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

"ROBERT W. DOWNS" wrote:



> I assume that you mean "ARC-1 and then AN/APR-1". :-)

Absolutely! Sorry, wuz dog tired last night at the end of a long day.

> Lenox, the ARD, or at least the ARD-2 which is the only model that I've  
> seen, is a 1/2 ATR package with a tube lineup similar to that in the  
> AN/APR-1 and AN/APR-4 (6AC7's, etc.). According to the manual, the tuning  
> range of the ARD-2 is 80-3000 MC.

As usual, Robert is correct. I should have pulled out the manual before typing - I took the unwise shortcut of simply running down to glance at the actual antenna last night sans glasses and the calibration scale actually reads 300 to 3000MHz. Freqs lower than 300MHz require reference to a conversion chart. Also discovered the detector is a GL-446A triode connected in diode mode. Dunno where I got the 6H6, which should have seemed odd to me anyway if I had actually thought about it. Memory's the second thing to go...or is it the third? Never could remember that rule...

Anyway, the antenna on this thing is probably only useful for looking at. It's simply a cylindrical shorted stub, chrome plated, with silver plated wipers - beautifully made, with not a rivet in sight. It has a max useful length of 65cm, and an ID of about 2cm. The electronics package is more interesting and could be the back end for a variety of outboard experiments. It is composed of a 3 stage R/C coupled amplifier with a bandpass of 30 to 130kHz (there's a pulse transformer on the input that apparently establishes this bandpass), a flip flop driving a meter circuit to count pulse rate, and a tail end amplifier to drive earphones and a 6E5 "magic eye" tube. If this baseline doesn't suggest some fun evenings fiddling around with 1 stage homebrew direct conversion receivers and the like, then I don't know what does...

73,  
Mike

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End of BOATANCHORS Digest 3053  
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